New York

Science and Engineering Profile

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999[1]	41,230	518,670	2	Total R&D performance, 1998 (millions)	$13,731	$214,668	2
Doctoral engineers, 1999[1]	6,230	107,100	3	Industry R&D, 1998 (millions)	$11,176	$163,480	3
S&E doctorates awarded, 1999[1]	2,223	25,953	2	Academic R&D, 1998 (millions)	$1,882	$25,342	2
of which, in life sciences	26%	25%		of which, in life sciences	66%	57%	
in psychology	18%	14%		in engineering	11%	16%	
in social sciences	17%	16%		in physical sciences	10%	9%	
S&E postdoctorates, 1998[1]				Public higher education current-fund			
in doctorate-granting institutions	3,129	39,494	3	expenditures, 1997 (millions)	$6,872	$125,236	3
S&E graduate students, 1998[1]				Number of SBIR awards, 1990-98	1,606	35,413	5
in doctorate-granting institutions	38,132	422,834	2	Patents issued to state residents, 1999	6,108	83,901	2
Population, 1999 (thousands)	18,197	276,580	3	Gross state product, 1998 (billions)	$707	$8,800	2
Civilian labor force, 1999 (thousands)	8,883	140,536	3	of which, agriculture	0%	1%	
				manufacturing, mining, construction	14%	22%	
Personal income per capita, 1999	$33,890	$28,542	5	transportation, communication, utilities	8%	9%	
				wholesale and retail trade	13%	16%	
Federal spending				finance, insurance, real estate	32%	19%	
Total expenditures, 1999 (millions)	$101,809	$1,508,933	2	services	23%	21%	
R&D obligations, 1998 (millions)	$2,552	$70,445	9	government	10%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies	2,551,833	191,988	213,181	709,033	1,121,737	221,286	94,608	9
Department of Agriculture	33,988	16,169	0	102	16,721	996	0	15
Department of Commerce	18,360	972	27	10,403	5,808	550	600	10
Department of Defense	606,358	155,980	982	382,743	62,490	4,163	0	13
Department of Energy	553,803	6,351	207,628	275,480	61,593	2,751	0	3
Dept. of Health & Human Services	1,076,498	1,421	1,749	20,820	774,425	190,151	87,932	4
Department of the Interior	8,200	6,377	0	61	1,752	0	10	20
Department of Transportation	9,836	450	0	2,122	1,860	0	5,404	13
Environmental Protection Agency	8,621	0	0	11	5,749	2,861	0	17
National Aeronautics and Space Admin	58,805	4,268	1,953	14,263	28,083	10,238	0	14
National Science Foundation	177,364	0	842	3,028	163,256	9,576	662	2
State rank, total	9	16	6	11	2	3	2	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".